

PIEZOELECTRIC DEVICE FOR INJECTOR

ABSTRACT OF THE DISCLOSURE

A piezoelectric device for an injector is built into an injector and generates driving force of the injector. A relation  $d(0.1E_c)/d(1.2E_c) \geq 0.50$  is established between an apparent piezoelectric constant  $d(1.2E_c)$  calculated from static elongation when an electric field of  $1.2 E_c$  is applied to the piezoelectric device in the same direction as a polarizing direction while a preset load of 500 N is applied to the piezoelectric device, and an apparent piezoelectric constant  $d(0.1E_c)$  calculated from static elongation when an electric field of  $0.1 E_c$  is applied to the piezoelectric device in the same direction as the polarizing direction. The piezoelectric device so fabricated has high durability and can be used for a long time.